

**CHAPTER 6 LESSON 2A HOMEWORK**  
*Ratio Relationships Word Problems*

Name: \_\_\_\_\_  
Date: \_\_\_\_\_ Math: \_\_\_\_\_

**Directions:** Complete each problem using the specified method of solving. You may use alternate methods to check your work. If not method is specified, you get to choose!

1. Sarah recently made a punch for her family reunion. She made 5 gallons of punch for 40 people. Her punch was a big hit and she has been asked to bring it on other occasions. She's made a list of the events in she is attending in the next two months to which she will bring her punch. Make a double number line to help Sarah determine how many gallons of punch she must make for each event.

<u>Event</u>	<u># of People</u>
Family dinner with guests	16
Emily's birthday party	24
Family reunion	40
6th grade fundraiser event	72


2. Use a method involving additive reasoning to solve this problem:

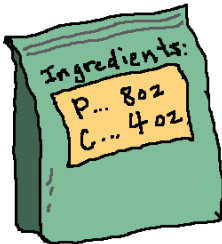
The ratio of dimes to quarters was 5 to 8. There were a total of 48 quarters in the vending machine. How many dimes were there?

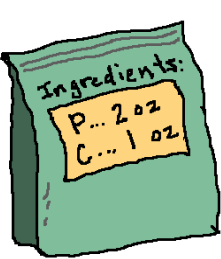
3. Use multiplicative reasoning to solve this problem:

The ratio of sparrows to bluejays at the bird house was 5 to 3. If there were 90 bluejays in the house, how many sparrows were there?

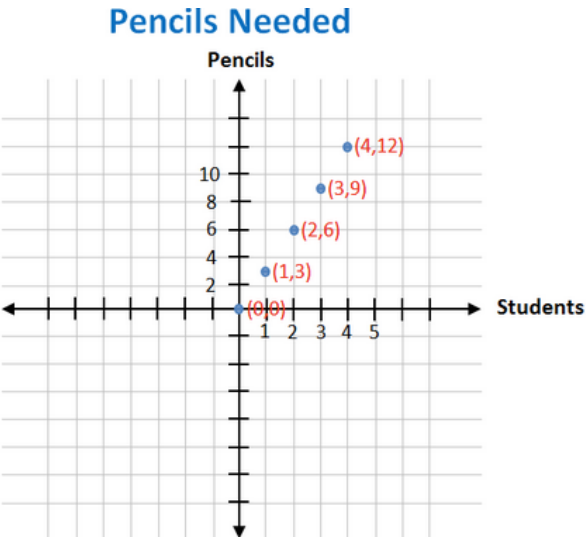
4. When hiking, Peter likes to prepare an energy snack that consists of 4 ounces of peanuts and 2 ounce of cashews. Which snack bags have the same ratio of peanuts (P) to cashews (C)? Use a double number line to justify your solution and explain your reasoning.

A


B.


C.


5. This graph shows the ratio of pencils to student. Use it to answer the following questions.



A. What is the ratio of pencils to students?

B. Use a table to figure out how many pencils are needed for 12 students.

C. Use any method to figure out how many students are present if there are 54 pencils.